

CD103PCT.ST25.txt
SEQUENCE LISTING

<110> CropDesign N.V.

<120> Plants having modified growth characteristics and method for making the same

<130> CD-103-PCT

<150> EP 03077811.2

<151> 2003-09-05

<160> 21

<170> PatentIn version 3.3

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<211> 930

<212> DNA

<213> Arabidopsis thaliana

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ttcatcgatt cgtataggaa aggacctaata cctaagcctc ttgagccttt tttgattcag 360
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gacatgtggt ctggttggtg tatctttgct gagatgggtc ggaggcaagc tcttttcctt 660
ggtgattctg agtttcagca attgcttcat atcttcaggt tgctaggaac accaactgag 720
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35 40 45
Leu Arg Glu Ile Ser Leu Leu Gln Met Leu Ser Thr Ser Ile Tyr Val 60
50 55 60
Val Arg Leu Leu Cys Val Glu His Val His Gln Pro Ser Thr Lys Ser 80
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Gln Ser Thr Lys Ser Asn Leu Tyr Leu Val Phe Glu Tyr Leu Asp Thr
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 Asp Leu Lys Lys Phe Ile Asp Ser Tyr Arg Lys Gly Pro Asn Pro Lys
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 115 120 125
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 130 135 140
 Pro Gln Asn Leu Leu Leu Val Lys Asp Lys Glu Leu Leu Lys Ile Ala
 145 150 155 160
 Asp Leu Gly Leu Gly Arg Ala Phe Thr Val Pro Leu Lys Ser Tyr Thr
 165 170 175
 His Glu Ile Val Thr Leu Trp Tyr Arg Ala Pro Glu Val Leu Leu Gly
 180 185 190
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 195 200 205
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 210 215 220
 Phe Gln Gln Leu Leu His Ile Phe Arg Leu Leu Gly Thr Pro Thr Glu
 225 230 235 240
 Gln Gln Trp Pro Gly Val Ser Thr Leu Arg Asp Trp His Val Tyr Pro
 245 250 255
 Lys Trp Glu Pro Gln Asp Leu Thr Leu Ala Val Pro Ser Leu Ser Pro
 260 265 270
 Gln Gly Val Asp Leu Leu Thr Lys Met Leu Lys Tyr Asn Pro Ala Glu
 275 280 285
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 aagaaattta tagattctca tagaaaggc tcgaatccta gaccgcttga ggcttctctt 360
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 Leu Arg Glu Ile Ser Leu Leu Gln Met Leu Ser Gln Ser Ile Tyr Ile 60
 50 55
 Val Arg Leu Leu Cys Val Glu His Val Ile Gln Ser Lys Asp Ser Thr 80
 65 70 75
 Val Ser His Ser Pro Lys Ser Asn Leu Tyr Leu Val Phe Glu Tyr Leu 95
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 Asp Thr Asp Leu Lys Lys Phe Ile Asp Ser His Arg Lys Gly Ser Asn 110
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 Pro Arg Pro Leu Glu Ala Ser Leu Val Gln Arg Phe Met Phe Gln Leu 125
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 Phe Lys Gly Val Ala His Cys His Ser His Gly Val Leu His Arg Asp 140
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 145 150 155
 Ile Ala Asp Leu Gly Leu Ser Arg Ala Phe Thr Val Pro Leu Lys Ala 175
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4/14

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gcttgagcag	gaggatgagg	gcgtccccctc	caccgcaatc	cgcgagatct	cgctcctcaa		360
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<213> Oryza sativa

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Phe Ala Lys Asn Pro Thr Leu Ile Lys Ser Tyr Leu Tyr Gln Ile Leu
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195 200 205

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 Asp Pro Ala Gly Leu Asp Leu Leu Ser Lys Met Leu Arg Tyr Glu Pro
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 50 55 60
 Arg Leu His Asp Val Ile His Ser Glu Lys Arg Ile Tyr Leu Asp Phe
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 Glu Tyr Leu Asp Leu Asp Leu Lys Lys Phe Met Asp Ser Cys Pro Glu
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 Phe Ala Lys Asn Pro Thr Leu Ile Lys Ser Tyr Leu Tyr Gln Ile Leu
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 Arg Gly Val Ala Tyr Cys His Ser His Arg Val Leu His Arg Asp Leu
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 Lys Pro Gln Asn Leu Leu Ile Asp Arg Arg Thr Asn Ala Leu Lys Leu
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 Ala Asp Phe Gly Leu Ala Arg Thr Phe Gly Ile Pro Val Arg Thr Phe
 145 150 155 160
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 165 170 175
 Gly Ser Arg Gln Tyr Ser Thr Pro Val Asp Met Trp Ser Val Gly Cys
 180 185 190

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 195 200 205
 Glu Ile Asp Glu Leu Phe Lys Ile Phe Arg Val Leu Gly Thr Pro Asn
 210 215 220
 Glu Gln Ser Trp Pro Gly Val Ser Ser Leu Pro Asp Tyr Lys Ser Ala
 225 230 235 240
 Phe Pro Lys Trp Gln Ala Gln Asp Leu Ala Thr Ile Val Pro Thr Leu
 245 250 255
 Asp Pro Ala Gly Leu Asp Leu Leu Ser Lys Met Leu Arg Tyr Glu Pro
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 35 40 45
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 50 55 60
 Arg Leu His Asp Val Ile His Ser Glu Lys Arg Ile Tyr Leu Val Phe
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 Glu Tyr Leu Asp Leu Asp Leu Lys Lys Phe Met Asp Ser Cys Pro Glu
 85 90 95
 Phe Ala Lys Asn Pro Thr Leu Ile Lys Ser Tyr Leu Tyr Gln Ile Leu
 100 105 110
 Arg Gly Val Ala Tyr Cys His Ser His Arg Val Leu His Arg Asp Leu
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 Lys Pro Gln Asn Leu Leu Ile Asp Arg Arg Thr Asn Ala Leu Lys Leu
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 Ala Asp Phe Gly Leu Ala Arg Ala Phe Gly Ile Pro Val Arg Thr Phe
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 Thr His Glu Val Val Thr Leu Trp Tyr Arg Ala Pro Glu Ile Leu Leu

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Glu Gln Ser Trp Pro Gly Val Ser Ser Leu Pro Asp Tyr Lys Ser Ala
225                               230                               235
Phe Pro Lys Trp Gln Ala Gln Asp Leu Ala Thr Ile Val Pro Thr Leu
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Asp Pro Ala Gly Leu Asp Leu Leu Ser Lys Met Leu Arg Tyr Glu Pro
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Lys Lys Ile Arg Leu Glu Gln Glu Asp Glu Gly Val Pro Ser Thr Ala
35 40 45
Ile Arg Glu Ile Ser Leu Leu Lys Glu Met His His Gly Asn Ile Val
50 55 60
Arg Leu His Asp Val Ile His Ser Glu Lys Arg Ile Tyr Leu Val Phe
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Glu Tyr Leu Asp Leu Asp Leu Lys Lys Phe Met Asp Ser Cys Pro Glu
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Phe Ala Lys Asn Pro Thr Leu Ile Lys Ser Tyr Leu Tyr Gln Ile Leu
100 105 110
Arg Gly Val Ala Tyr Cys His Ser His Ser Val Leu His Arg Asp Leu
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Lys Pro Gln Asn Leu Leu Ile Asp Arg Arg Thr Asn Ala Leu Glu Leu
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 165 170 175
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 180 185 190
 Ile Phe Ala Glu Met Val Asn Gln Lys Pro Leu Phe Pro Gly Asp Ser
 195 200 205
 Glu Ile Asp Glu Leu Phe Lys Ile Phe Arg Val Leu Gly Thr Pro Asn
 210 215 220
 Glu Gln Ser Trp Pro Gly Val Ser Ser Leu Pro Asp Tyr Lys Ser Ala
 225 230 235 240
 Phe Pro Lys Trp Gln Ala Gln Asp Leu Ala Thr Ile Val Pro Thr Leu
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 Asp Pro Ala Gly Leu Asp Leu Leu Ser Lys Met Leu Arg Tyr Glu Pro
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 Lys Lys Ile Arg Leu Glu Gln Glu Asp Glu Gly Val Pro Ser Thr Ala
 35 40 45
 Ile Arg Glu Ile Ser Leu Leu Lys Glu Met His His Gly Asn Ile Val
 50 55 60
 Arg Leu His Asp Val Ile His Ser Glu Lys Arg Ile Tyr Leu Val Phe
 65 70 75 80
 Glu Tyr Leu Asp Leu Asp Leu Lys Lys Phe Met Asp Ser Cys Pro Glu
 85 90 95
 Phe Ala Lys Asn Pro Thr Leu Ile Lys Ser Tyr Leu Tyr Gln Ile Leu
 100 105 110
 Arg Gly Val Ala Tyr Cys His Ser His Arg Val Leu His Arg Asp Leu
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Lys Pro Gln Asn Leu Leu Ile Asp Arg Arg Thr Asn Ala Leu Lys Leu
 130 135 140
 Ala Asp Phe Gly Leu Ala Arg Ala Phe Arg Ile Pro Val Arg Thr Phe
 145 150 155 160
 Thr His Glu Val Val Thr Leu Trp Tyr Arg Ala Pro Glu Ile Leu Leu
 165 170 175
 Gly Ser Arg Gln Tyr Ser Thr Pro Val Asp Met Trp Ser Val Gly Cys
 180 185 190
 Ile Phe Ala Glu Met Val Asn Gln Lys Pro Leu Phe Pro Gly Asp Ser
 195 200 205
 Glu Ile Asp Glu Leu Phe Lys Ile Phe Arg Val Leu Gly Thr Pro Asn
 210 215 220
 Glu Gln Ser Trp Pro Gly Val Ser Ser Leu Pro Asp Tyr Lys Ser Ala
 225 230 235 240
 Phe Pro Lys Trp Gln Ala Gln Asp Leu Ala Thr Ile Val Pro Thr Leu
 245 250 255
 Asp Pro Ala Gly Leu Asp Leu Leu Ser Lys Met Leu Arg Tyr Glu Pro
 260 265 270
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 Lys Lys Ile Arg Leu Ala Gln Glu Asp Glu Gly Val Pro Ser Thr Ala
 35 40 45
 Ile Arg Glu Ile Ser Leu Leu Lys Glu Met His His Gly Asn Ile Val
 50 55 60
 Arg Leu His Asp Val Ile His Ser Glu Lys Arg Ile Tyr Leu Val Phe
 65 70 75 80
 Glu Tyr Leu Asp Leu Asp Leu Lys Lys Phe Met Asp Ser Cys Pro Glu
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100 105 110

Arg Gly Val Ala Tyr Cys His Ser His Arg Val Leu His Arg Asp Leu
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Lys Pro Gln Asn Leu Leu Ile Asp Leu Arg Thr Asn Ala Leu Lys Leu
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145 150 155 160

Thr His Glu Val Val Thr Leu Trp Tyr Arg Ala Pro Glu Ile Leu Leu
165 170 175

Gly Ser Arg Gln Tyr Ala Thr Pro Val Asp Met Trp Ser Val Gly Cys
180 185 190

Thr Phe Ala Glu Met Val Asn Gln Lys Pro Leu Phe Pro Gly Asp Ser
195 200 205

Glu Ile Asp Glu Leu Phe Lys Ile Phe Arg Val Leu Gly Thr Pro Asn
210 215 220

Glu Gln Ser Trp Pro Gly Val Ser Ser Leu Pro Asp Tyr Lys Ser Ala
225 230 235 240

Phe Pro Lys Trp Gln Ala Gln Asp Leu Ala Thr Ile Val Pro Thr Leu
245 250 255

Asp Pro Ala Gly Leu Asp Leu Leu Ser Lys Val Leu Arg Tyr Glu Pro
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CD103PCT.ST25.txt

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